REMARKS

Applicant thanks the Examiner for examination of the application.

The drawings have been amended to comply with 37 CFR 1.84(p)(5). Specifically, Figure 1 and Figure 2 have been amended to include reference number 16 and reference number 64, respectively. A copy of the proposed drawing correction is attached to avoid abandonment of the application. Examiner is requested to remove the objection of the drawings.

Claims 1-3, 15, and 17 have been canceled.

Pursuant to the Examiner's request Claim 4 has been rewritten to overcome the rejection under 35 USC 112, second paragraph and to include all of the limitations of the base claim and any intervening claims. Thereby, Claims 4-14 are allowable.

Pursuant to the Examiner's request Claims 16 and 18 have been rewritten in independent form including all of the limitations of the base claim and any intervening claims. Thereby, Claims 16, 18-19 and 27-30 are allowable.

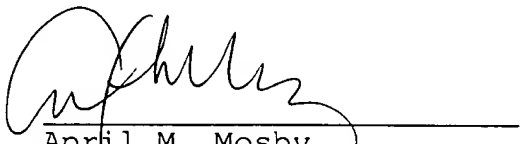
Pursuant to the Examiner's request Claim 20 has been amended to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As Examiner has stated claims 20-26 are allowable if rewritten to particularly point out and distinctly claim the subject matter which applicant regards as the invention according to 35 USC 112, second paragraph. Thereby, Claims 20-26 are allowable.

Claims 4-14, 16, and 18-30 stand allowable.

This Amendment, submitted in response to the outstanding office action dated April 17, 2003, is believed fully responsive to each point of objection or rejection raised therein.

The Claims 4-14, 16, and 18-30 distinguish over the cited references and the application is in allowable form. Applicant respectfully requests reconsideration or further examination and allowance of the application.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Please cancel claims 1 - 3, 15, and 17.

Please amend claims 4, 16, 18, and 20 as follows:

4. (Amended) [The method of claim 3] In a wireless communication network, a method for adaptively modifying the sleep-mode behavior of a mobile station, wherein the wireless communications network includes control communications and a base station to transmit broadcast messages monitored by the mobile station, the method comprising:

maintaining a record of traffic communications to the mobile station [wherein maintaining a record of communications includes] by making a record of traffic communications to the [first] mobile station over a period of time greater than a day; [and]

determining cyclic patterns of traffic communication activity, in response to the traffic communications record [wherein determining cyclic patterns of traffic communication activity includes] by determining daily patterns of traffic communication activity; and

reducing control communications with the wireless communications network during periods determined to have low traffic communication activity, wherein the control communications between the base station and the mobile station include a slotted mode of operation where the mobile station monitors broadcast messages transmitted at a first periodic rate and, after control communications have been reduced, the mobile station monitors broadcast messages transmitted at a second periodic rate, slower than the first rate.

16. (Amended) In a wireless communication networks, a method for adaptively modifying the sleep-mode behavior of a mobile station, wherein the wireless communications network includes a base station to transmit broadcast messages monitored by the mobile station, the method comprising: [The method of Claim 1 in which the base station message service is included; and]

[the method further comprising:]

maintaining a record of traffic communications to a mobile station;

determining cyclic patterns of traffic communication activity, in response to the traffic communications record;

reducing control communications with the wireless communications network during periods determined to have low traffic communication activity,

[following the reducing of the control communications with the wireless communications network,] initiating a mobile station traffic communication;

supplying a warning from the base station message service that the initiation of the traffic communication with the mobile station will be delayed.

18. (Amended) [The system of claim 17 further comprising:] In a wireless communications network, a system for adaptively modifying the sleep-mode behavior of a mobile station, the system comprising:

a mobile station having a wireless communications port to communicate traffic and control communications with the wireless communications network;

an interacting memory, microprocessor, and software application of machine executable instructions to maintain a record of mobile station traffic communications and, in response to the traffic communications record, determining cyclic patterns of traffic communication activity, wherein control communications

are reduced between the mobile station and the wireless communications network during periods determined to have low traffic communication activity; and

a base station to transmit broadcast messages monitored by the mobile station, the base station decreasing the frequency of transmitted broadcast messages when control communications between the wireless communications network and the mobile station are reduced.

20. (Amended) The system of Claim 19 wherein the memory maintains a record of communications which include a record of traffic communications to the [first] mobile station over a period of time greater than a day; and

wherein the software application determines daily patterns of traffic communication activity from the stored record of traffic communications.

FIG. 1

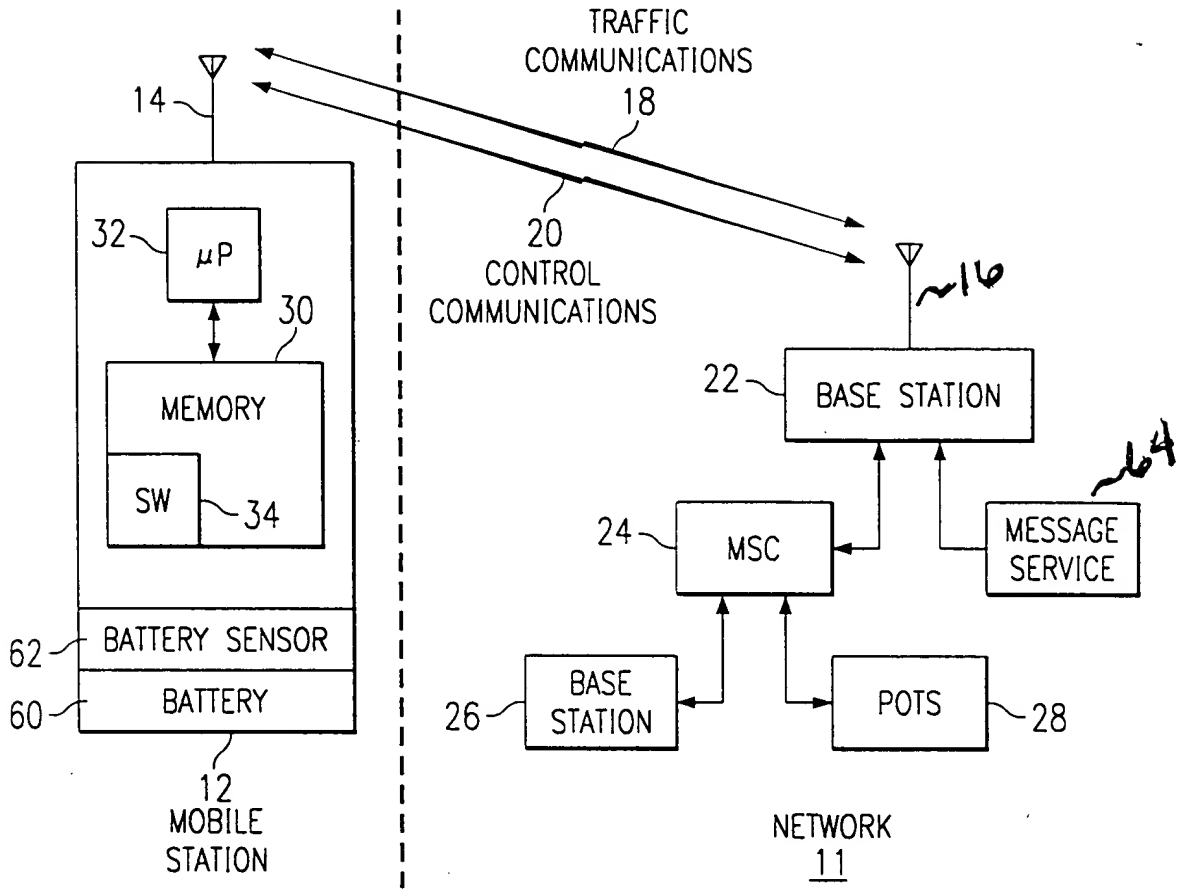

FIG. 2